



# Mushrooms

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## Special Note

NASS is in the process of modifying report layouts in order to improve readability. This is the first issue produced using the new layout. This report issue is published using both layouts but future issues will only be produced using this layout. The previous layout is available on the NASS website: <http://www.nass.usda.gov>.

## All Mushroom Sales Down 3 Percent, Value Down 4 Percent

Sales of the 2009-2010 United States mushroom crop are 793 million pounds, down 3 percent from the 2008-2009 season. Value of sales for the 2009-2010 United States mushroom crop is \$925 million, down 4 percent from the previous season. The number of growers, at 312, is up 23 from last season. The average price is \$1.17 per pound, unchanged from 2008-2009.

Volume of sales reported by growers of Agaricus mushrooms for fresh market is 671 million pounds, down 1 percent from the 2008-2009 season. Volume of sales of Agaricus mushrooms for processing is 107 million pounds, down 13 percent from last season. Value of sales for all Agaricus mushrooms totaled \$886 million, down 3 percent from the previous year.

## Agaricus and Specialty Mushroom Number of Growers, Sales, and Price – United States: 2007-2008, 2008-2009, and 2009-2010

Year	Growers <sup>1</sup>	All sales		
		Volume of sales	Price per pound <sup>2</sup>	Value of sales
	(number)	(1,000 pounds)	(dollars)	(1,000 dollars)
2007-2008 .....	279	812,604	1.180	962,756
2008-2009 .....	289	819,775	1.170	958,896
2009-2010 .....	312	793,192	1.170	924,860

<sup>1</sup> Number of growers counted once if growing both Agaricus and specialty mushrooms.

<sup>2</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

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# Agaricus Mushroom Area, Sales, and Price – States and United States: 2007-2008, 2008-2009, and 2009-2010

State, region <sup>1</sup> , and year	Area in production		Volume of sales	Price per pound <sup>2</sup>	Value of sales
	Growing area	Total fillings			
	(1,000 square feet)	(1,000 square feet)	(1,000 pounds)	(dollars)	(1,000 dollars)
California					
2007-2008 .....	4,399	21,764	118,811	1.600	189,615
2008-2009 .....	3,914	20,543	123,919	1.630	202,599
2009-2010 .....	3,794	19,260	112,522	1.640	184,031
Pennsylvania					
2007-2008 .....	16,364	78,083	496,721	0.912	453,013
2008-2009 .....	16,635	80,869	524,587	0.881	461,936
2009-2010 .....	16,481	77,322	501,228	0.876	438,999
Washington <sup>3</sup>					
2007-2008 .....	(D)	(D)	(D)	(D)	(D)
2008-2009 .....	310	1,146	12,744	1.680	21,357
2009-2010 .....	310	1,146	12,970	1.690	21,952
Other States <sup>4</sup>					
2007-2008 .....	6,201	36,164	181,816	1.510	274,979
2008-2009 .....	6,749	31,975	142,646	1.580	224,766
2009-2010 .....	7,014	32,833	151,194	1.590	240,810
East					
2007-2008 .....	17,901	90,922	564,759	0.969	547,468
2008-2009 .....	18,047	92,151	569,947	0.926	527,847
2009-2010 .....	18,113	90,053	553,285	0.931	515,177
Central					
2007-2008 .....	3,233	15,822	77,059	1.640	126,684
2008-2009 .....	3,178	15,302	74,355	1.700	126,107
2009-2010 .....	3,201	15,332	77,354	1.730	133,707
West					
2007-2008 .....	5,830	29,267	155,530	1.570	243,455
2008-2009 .....	6,383	27,080	159,594	1.610	256,704
2009-2010 .....	6,285	25,176	147,275	1.610	236,908
United States					
2007-2008 .....	26,964	136,011	797,348	1.150	917,607
2008-2009 .....	27,608	134,533	803,896	1.130	910,658
2009-2010 .....	27,599	130,561	777,914	1.140	885,792

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Regions - East: Delaware, Florida, Maryland, New York, Pennsylvania, and Tennessee. Central: Illinois, Missouri, Oklahoma, Texas, and Wisconsin. West: California, Colorado, Montana, Oregon, Utah, and Washington.

<sup>2</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

<sup>3</sup> Estimates began in 2008-2009 season.

<sup>4</sup> For 2007-2008, Other States include Colorado, Connecticut, Delaware, Florida, Illinois, Maryland, Montana, New York, Oklahoma, Oregon, Tennessee, Texas, Utah, and Wisconsin. For 2008-2009, Other States include Colorado, Delaware, Florida, Illinois, Missouri, Montana, New York, Oklahoma, Oregon, Tennessee, Texas, Utah, and Wisconsin. For 2009-2010, Other States include Colorado, Delaware, Florida, Illinois, Maryland, Missouri, Montana, New York, Oklahoma, Oregon, Tennessee, Texas, Utah, and Wisconsin.

**Agaricus Mushroom Sales and Price by Utilization – States, Regions, and United States: 2007-2008, 2008-2009, and 2009-2010**

Year, State, and region <sup>1</sup>	Fresh market			Processing		
	Volume of sales	Price per pound <sup>2</sup>	Value of sales	Volume of sales	Price per pound <sup>2</sup>	Value of sales
	(1,000 pounds)	(dollars)	(1,000 dollars)	(1,000 pounds)	(dollars)	(1,000 dollars)
<b>2007-2008</b>						
Pennsylvania .....	404,971	0.987	399,706	91,750	0.581	53,307
Other East .....	59,134	1.490	88,378	8,904	0.683	6,077
East total .....	464,105	1.050	488,084	100,654	0.590	59,384
Central total .....	67,111	1.760	117,781	9,948	0.895	8,903
California .....	115,366	1.620	186,893	3,445	0.790	2,722
Other West .....	33,104	1.480	48,995	3,615	1.340	4,845
West total .....	148,470	1.590	235,888	7,060	1.070	7,567
United States .....	679,686	1.240	841,753	117,662	0.645	75,854
<b>2008-2009</b>						
Pennsylvania .....	420,326	0.971	408,137	104,261	0.516	53,799
Other East .....	38,069	1.600	60,742	7,291	0.709	5,169
East total .....	458,395	1.020	468,879	111,552	0.529	58,968
Central total .....	64,995	1.810	117,524	9,360	0.917	8,583
California .....	121,932	1.650	201,188	1,987	0.710	1,411
Washington <sup>3</sup> .....	12,684	1.680	21,309	60	0.800	48
Other West .....	22,322	1.440	32,121	609	1.030	627
West total .....	156,938	1.620	254,618	2,656	0.785	2,086
United States .....	680,328	1.240	841,021	123,568	0.564	69,637
<b>2009-2010</b>						
Pennsylvania .....	408,770	0.950	388,332	92,458	0.548	50,667
Other East .....	47,746	1.540	73,542	4,311	0.611	2,636
East total .....	456,516	1.010	461,874	96,769	0.551	53,303
Central total .....	69,967	1.810	126,563	7,387	0.967	7,144
California .....	110,539	1.650	182,389	1,983	0.828	1,642
Washington <sup>3</sup> .....	12,640	1.720	21,741	330	0.640	211
Other West .....	21,143	1.430	30,307	640	0.966	618
West total .....	144,322	1.620	234,437	2,953	0.837	2,471
United States .....	670,805	1.230	822,874	107,109	0.587	62,918

<sup>1</sup> Regions - East: Delaware, Florida, Maryland, New York, Pennsylvania, and Tennessee. Central: Illinois, Missouri, Oklahoma, Texas, and Wisconsin. West: California, Colorado, Montana, Oregon, Utah, and Washington.

<sup>2</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

<sup>3</sup> Estimates began in the 2008-2009 season.

**Agaricus Mushroom Number of Growers, Sales, and Price – States, Regions, and United States:  
2007-2008, 2008-2009, and 2009-2010**

Year, State, and region <sup>1</sup>	Growers	All Sales		
		Volume of sales	Price per pound <sup>2</sup>	Value of sales
	(number)	(1,000 pounds)	(dollars)	(1,000 dollars)
<b>2007-2008</b>				
Pennsylvania .....	69	496,721	0.912	453,013
Other East .....	7	68,038	1.390	94,455
East total .....	76	564,759	0.969	547,468
Central total .....	9	77,059	1.640	126,684
California .....	18	118,811	1.600	189,615
Other West .....	8	36,719	1.470	53,840
West total .....	26	155,530	1.570	243,455
United States .....	111	797,348	1.150	917,607
<b>2008-2009</b>				
Pennsylvania .....	71	524,587	0.881	461,936
Other East .....	8	45,360	1.450	65,911
East total .....	79	569,947	0.926	527,847
Central total .....	9	74,355	1.700	126,107
California .....	23	123,919	1.630	202,599
Washington <sup>3</sup> .....	( <sup>4</sup> )	12,744	1.680	21,357
Other West .....	6	22,931	1.430	32,748
West total .....	29	159,594	1.610	256,704
United States .....	117	803,896	1.130	910,658
<b>2009-2010</b>				
Pennsylvania .....	70	501,228	0.876	438,999
Other East .....	8	52,057	1.460	76,178
East total .....	78	553,285	0.931	515,177
Central total .....	9	77,354	1.730	133,707
California .....	18	112,522	1.640	184,031
Washington <sup>3</sup> .....	( <sup>4</sup> )	12,970	1.690	21,952
Other West .....	7	21,783	1.420	30,925
West total .....	25	147,275	1.610	236,908
United States .....	112	777,914	1.140	885,792

<sup>1</sup> Regions - East: Delaware, Florida, Maryland, New York, Pennsylvania, and Tennessee. Central: Illinois, Missouri, Oklahoma, Texas, and Wisconsin. West: California, Colorado, Montana, Oregon, Utah, and Washington.

<sup>2</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

<sup>3</sup> Estimates began in the 2008-2009 season.

<sup>4</sup> Data included in Other West to avoid disclosing data for individual operations.

# Agaricus Mushroom Yield and Dollar Volume per Square Foot of Growing Area – States, Regions, and United States: 2007-2008, 2008-2009, and 2009-2010

State and region <sup>1</sup>	Yield per square foot		
	2007-2008	2008-2009	2009-2010
	(pounds)	(pounds)	(pounds)
Pennsylvania .....	6.36	6.49	6.48
East .....	6.21	6.18	6.14
Central .....	4.87	4.86	5.05
California .....	5.46	6.03	5.84
Washington <sup>2</sup> .....	(D)	11.12	11.32
West .....	5.31	5.89	5.85
United States .....	5.86	5.98	5.96
	Dollar volume per square foot		
	(dollars)	(dollars)	(dollars)
Pennsylvania .....	5.80	5.71	5.68
East .....	6.02	5.73	5.72
Central .....	8.01	8.24	8.72
California .....	8.71	9.86	9.56
Washington <sup>2</sup> .....	(D)	18.64	19.16
West .....	8.32	9.48	9.41
United States .....	6.75	6.77	6.78

(D) Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Regions - East: Delaware, Florida, Maryland, New York, Pennsylvania, and Tennessee. Central: Illinois, Missouri, Oklahoma, Texas, and Wisconsin. West: California, Colorado, Montana, Oregon, Utah, and Washington.

<sup>2</sup> Estimates began in the 2008-2009 season.

## Brown Mushrooms (Portabello and Crimini) Number of Growers, Volume of Sales, and Value – Regions and United States: 2007-2008, 2008-2009, and 2009-2010

[Brown mushrooms are part of Agaricus mushrooms]

Region <sup>1</sup> and year	Growers	Volume of sales	Value	Region <sup>1</sup> and year	Growers	Volume of sales	Value
	(number)	(1,000 pounds)	(1,000 dollars)		(number)	(1,000 pounds)	(1,000 dollars)
East				West			
2007-2008 .....	26	79,095	86,865	2007-2008 .....	17	18,055	37,299
2008-2009 .....	26	81,836	88,121	2008-2009 .....	15	19,673	43,131
2009-2010 .....	28	86,977	92,477	2009-2010 .....	15	22,445	48,550
Central				United States			
2007-2008 .....	7	8,096	20,094	2007-2008 .....	50	105,246	144,258
2008-2009 .....	8	9,552	24,159	2008-2009 .....	49	111,061	155,411
2009-2010 .....	8	10,884	27,023	2009-2010 .....	51	120,306	168,050

<sup>1</sup> Regions - East: Florida, New York, Pennsylvania, and Tennessee. Central: Illinois, Missouri, Oklahoma, Texas, and Wisconsin. West: California, Colorado, Montana, Oregon, Utah, and Washington.

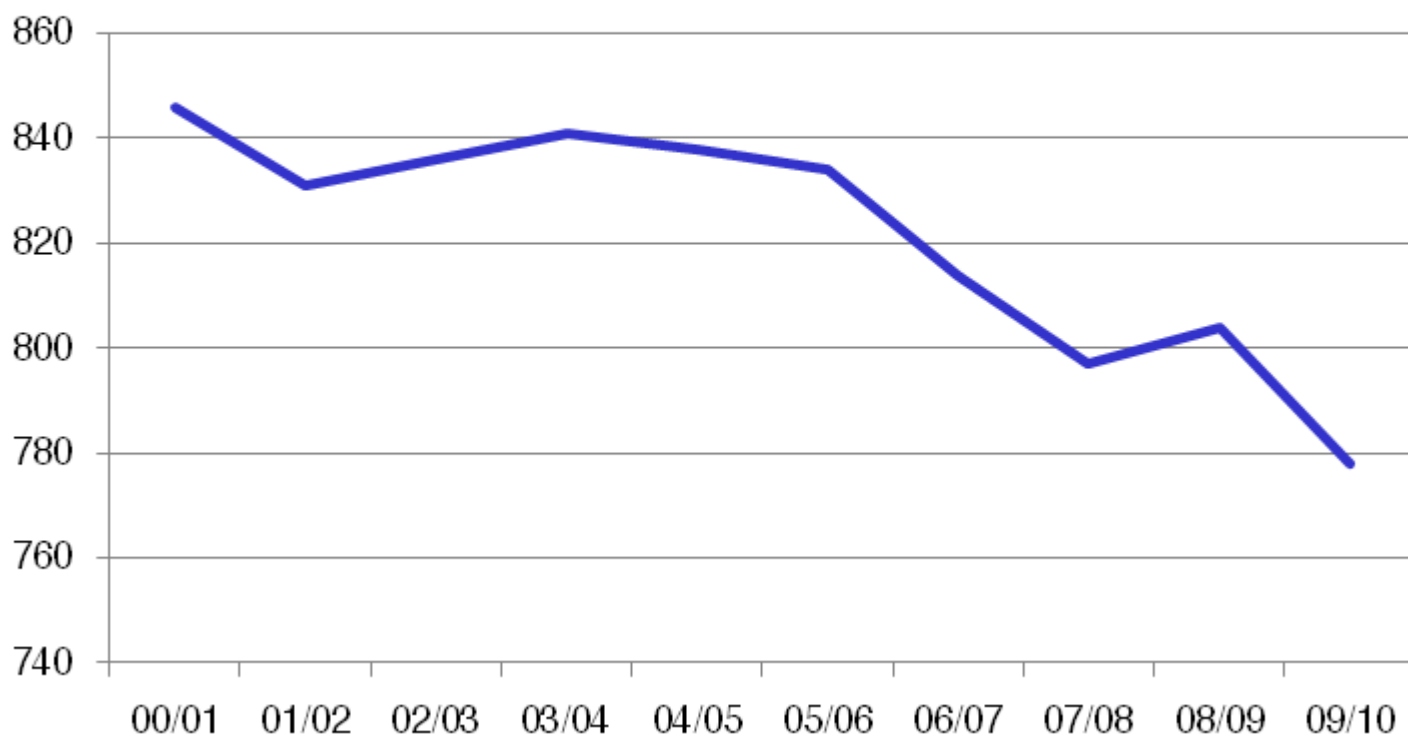
## Agaricus Mushroom Type of Sales and Percent of Total – United States: 2000-2010

[This table represents volume of sales at point of first sale. Mushrooms sold for fresh use, but used for processing are included under fresh market volume of sales]

Year	Fresh market		Processing		Total volume of sales
	Volume of sales	Percent	Volume of sales	Percent	
	(1,000 pounds)		(1,000 pounds)		(1,000 pounds)
2000-2001 .....	692,630	82	153,579	18	846,209
2001-2002 .....	689,968	83	141,139	17	831,107
2002-2003 .....	697,248	83	139,150	17	836,398
2003-2004 .....	703,496	84	137,666	16	841,162
2004-2005 .....	696,319	83	141,764	17	838,083
2005-2006 .....	704,584	85	129,093	15	833,677
2006-2007 .....	696,709	86	117,140	14	813,849
2007-2008 .....	679,686	85	117,662	15	797,348
2008-2009 .....	680,328	85	123,568	15	803,896
2009-2010 .....	670,805	86	107,109	14	777,914

## Agaricus Mushroom Volume of Sales - United States

Million pounds





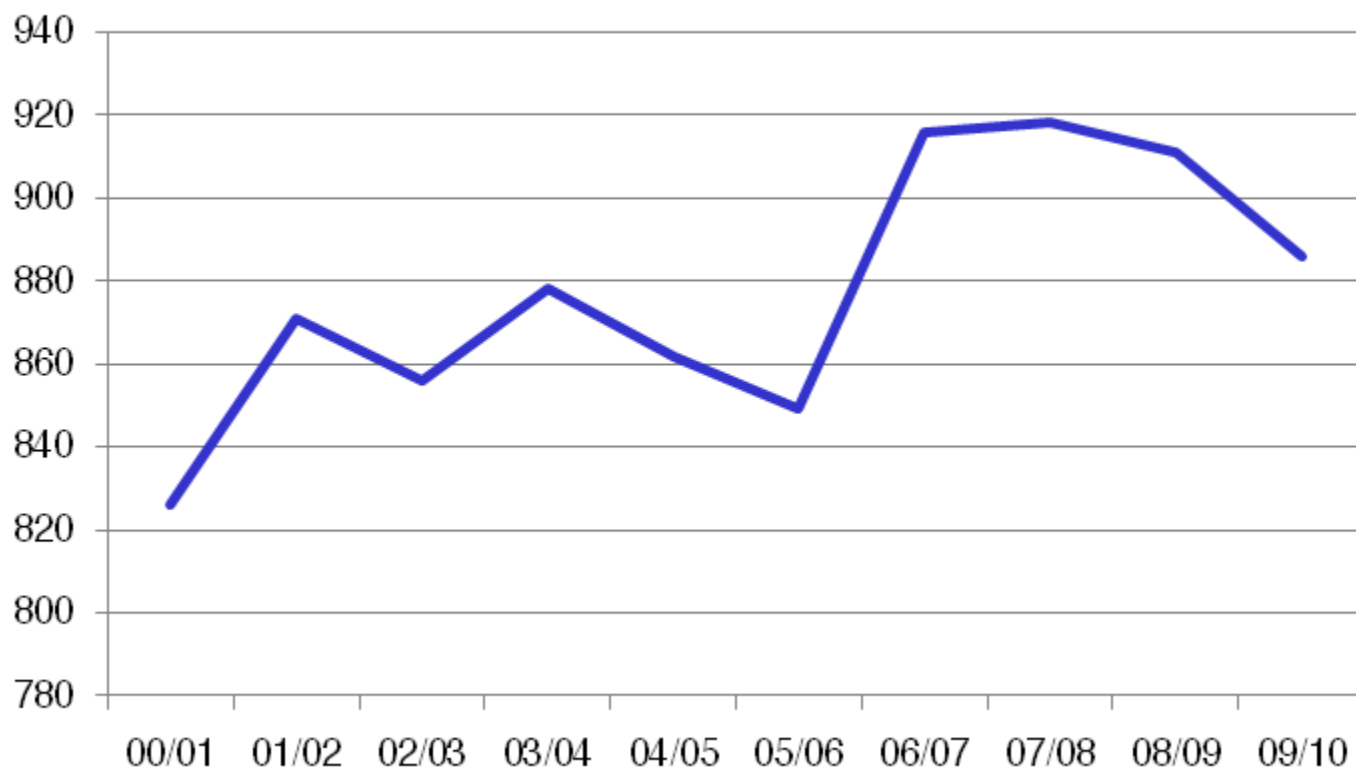
## Agaricus Mushroom Price and Value by Type of Sale – United States: 2000-2010

Year	Fresh market		Processing		All sales	
	Price <sup>1</sup> per pound	Value of sales	Price <sup>1</sup> per pound	Value of sales	Price <sup>1</sup> per pound	Value of sales
	(dollars)	(1,000 dollars)	(dollars)	(1,000 dollars)	(dollars)	(1,000 dollars)
2000-2001 .....	1.060	736,543	0.579	88,957	0.976	825,500
2001-2002 .....	1.150	796,522	0.525	74,051	1.050	870,573
2002-2003 .....	1.120	778,307	0.558	77,676	1.020	855,983
2003-2004 .....	1.140	805,200	0.532	73,205	1.040	878,405
2004-2005 .....	1.140	796,493	0.463	65,699	1.030	862,192
2005-2006 .....	1.130	793,538	0.428	55,298	1.020	848,836
2006-2007 .....	1.210	840,560	0.640	75,001	1.120	915,561
2007-2008 .....	1.240	841,753	0.645	75,854	1.150	917,607
2008-2009 .....	1.240	841,021	0.564	69,637	1.130	910,658
2009-2010 .....	1.230	822,874	0.587	62,918	1.140	885,792

<sup>1</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale

## Agaricus Mushroom Value of Sales - United States

Million dollars



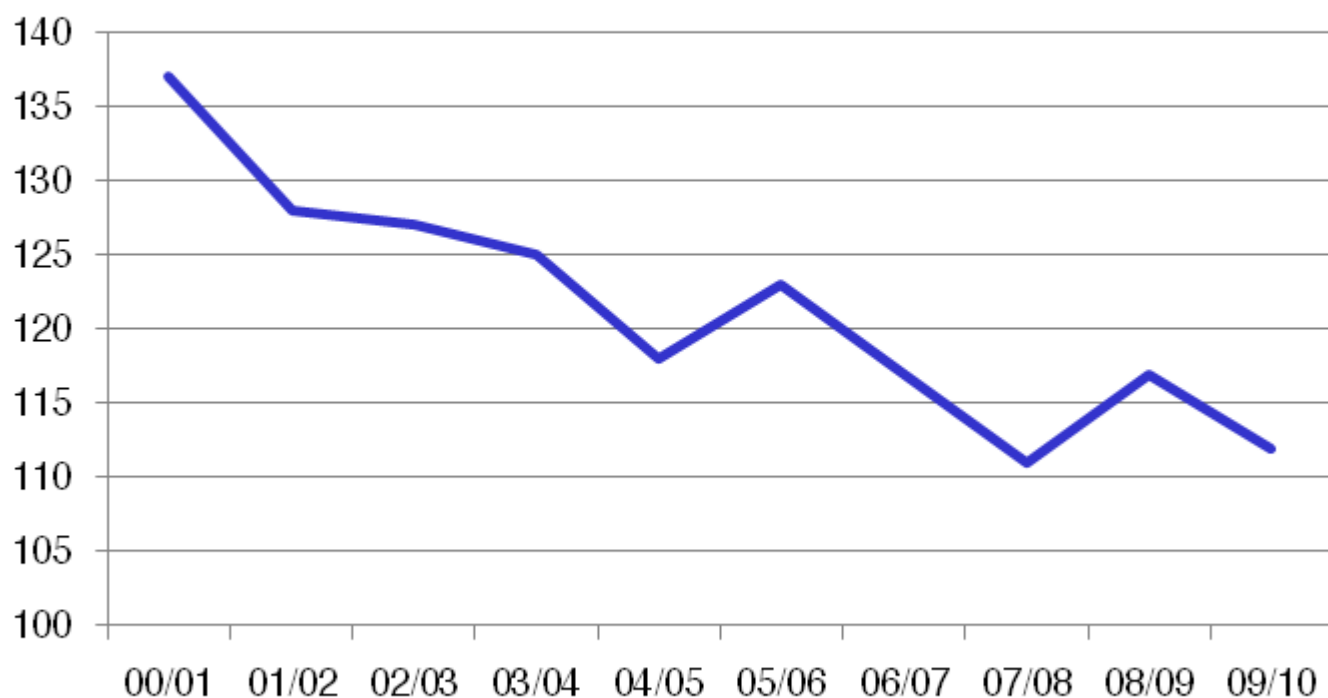
# **Agaricus Mushroom Number of Growers, Area in Production, Yield, and Dollar Volume per Square Foot – United States: 2000-2010**

Year	Growers <sup>1</sup>	Area in production	Yield per square foot	Dollar volume per square foot
	(number)	(1,000 square feet)	(pounds)	(dollars)
2000-2001 .....	137	143,873	5.88	5.74
2001-2002 .....	128	140,822	5.90	6.18
2002-2003 .....	127	141,844	5.90	6.03
2003-2004 .....	125	146,510	5.74	6.00
2004-2005 .....	118	143,093	5.86	6.03
2005-2006 .....	123	142,550	5.85	5.95
2006-2007 .....	117	145,743	5.58	6.28
2007-2008 .....	111	136,011	5.86	6.75
2008-2009 .....	117	134,533	5.98	6.77
2009-2010 .....	112	130,561	5.96	6.78

<sup>1</sup> Estimates are based on growers with sales and include all known growing facilities.

## **Agaricus Mushroom Number of Growers - United States**

Number



**Agaricus Mushroom Bed or Tray Area Intended for Production – States, Regions, and United States:  
July 2010-June 2011**

State and region <sup>1</sup>	Intentions July 2010 - June 2011			
	Fresh market	Processed market	Total fillings	Percent of last year
	(1,000 square feet)	(1,000 square feet)	(1,000 square feet)	(percent)
California .....	18,632	-	18,632	97
Pennsylvania .....	70,822	3,761	74,583	96
Washington .....	1,230	-	1,230	107
Other States <sup>2</sup> .....	32,612	423	33,035	101
East .....	83,299	4,184	87,483	97
Central .....	15,332	-	15,332	100
West .....	24,665	-	24,665	98
United States .....	123,296	4,184	127,480	98

- Represents zero.

<sup>1</sup> Regions - East: Delaware, Florida, Maryland, New York, Pennsylvania, and Tennessee. Central: Illinois, Missouri, Oklahoma, Texas, and Wisconsin. West: California, Colorado, Montana, Oregon, Utah, and Washington.

<sup>2</sup> Other States include Colorado, Delaware, Florida, Illinois, Maryland, Missouri, Montana, New York, Oklahoma, Oregon, Tennessee, Texas, Utah, and Wisconsin.

# Specialty Mushroom Number of Growers, Total Production, Volume of Sales, Price, and Value of Sales by Variety – United States: 2007-2008, 2008-2009, and 2009-2010

[Specialty mushroom estimates represent growers who have at least 200 natural wood logs in production or some commercial indoor growing area, and \$200 in sales]

Year and variety	Growers <sup>1</sup>	Total production <sup>2</sup>	All sales		
			Volume of sales <sup>3</sup>	Price per pound <sup>4</sup>	Value of sales
	(number)	(1,000 pounds)	(1,000 pounds)	(dollars)	(1,000 dollars)
2007-2008					
Shiitake .....	155	9,848	9,673	2.69	26,049
Oyster .....	61	4,371	4,253	2.88	12,232
Other .....	24	1,371	1,330	5.16	6,868
United States <sup>5</sup> .....	181	15,590	15,256	2.96	45,149
2008-2009					
Shiitake .....	166	9,715	9,458	3.19	30,146
Oyster .....	67	5,384	5,057	2.46	12,448
Other .....	27	1,605	1,364	4.14	5,644
United States <sup>5</sup> .....	188	16,704	15,879	3.04	48,238
2009-2010					
Shiitake .....	181	6,591	6,324	2.75	17,390
Oyster .....	77	6,236	5,782	2.55	14,769
Other .....	27	3,434	3,172	2.18	6,909
United States <sup>5</sup> .....	216	16,261	15,278	2.56	39,068

<sup>1</sup> Growers counted only once for United States total if growing more than one specialty type mushroom. Growers growing Agaricus and specialty mushrooms are included.

<sup>2</sup> Total production includes all fresh market and processing sales plus amount harvested but not sold (shrinkage, cullage, dumped, etc.).

<sup>3</sup> Virtually all specialty mushroom sales are for fresh market.

<sup>4</sup> Prices for mushrooms are the average prices producers receive at the point of first sale, commonly referred to as the average price as sold. For example, if in a given State, part of the fresh mushrooms are sold F.O.B. packed by growers, part are sold bulk to brokers or repackers, and some are sold retail at roadside stands, the mushroom average price as sold is a weighted average of the average price for each method of sale.

<sup>5</sup> 2007-2008: Arkansas, California, Connecticut, Delaware, Florida, Hawaii, Illinois, Indiana, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, New Hampshire, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Washington, West Virginia, and Wisconsin.

2008-2009: Arkansas, California, Connecticut, Florida, Hawaii, Illinois, Indiana, Kansas, Kentucky, Maine, Massachusetts, Michigan, Minnesota, Missouri, Montana, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Vermont, Washington, West Virginia, and Wisconsin.

2009-2010: Arkansas, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Illinois, Indiana, Kansas, Kentucky, Maine, Massachusetts, Minnesota, Missouri, Montana, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Vermont, Washington, West Virginia, and Wisconsin.

## Specialty Mushroom Area in Production by Variety – United States: 2007-2008, 2008-2009, and 2009-2010

[Specialty mushroom estimates represent growers who have at least 200 natural wood logs in production or some commercial indoor growing area, and \$200 in sales]

Year and variety	Area		
	Natural wood outdoor logs	Natural wood undercover and indoor logs	All other production media
	(1,000 logs)	(1,000 logs)	(1,000 square feet)
2007-2008			
Shiitake <sup>1</sup> .....	122	60	1,436
Oyster .....	(X)	(X)	618
Other .....	(X)	(X)	419
United States <sup>2</sup> .....	122	60	2,473
2008-2009			
Shiitake <sup>1</sup> .....	107	88	1,317
Oyster .....	(X)	(X)	648
Other .....	(X)	(X)	474
United States <sup>2</sup> .....	107	88	2,439
2009-2010			
Shiitake <sup>1</sup> .....	117	87	1,214
Oyster .....	(X)	(X)	593
Other .....	(X)	(X)	360
United States <sup>2</sup> .....	117	87	2,167

(X) Not applicable.

<sup>1</sup> Includes small quantity of logs producing Oyster and Other mushrooms. These logs are not published separately to avoid disclosure of individual operations.

<sup>2</sup> 2007-2008: Arkansas, California, Connecticut, Delaware, Florida, Hawaii, Illinois, Indiana, Kansas, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, New Hampshire, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Washington, West Virginia, and Wisconsin.

2008-2009: Arkansas, California, Connecticut, Florida, Hawaii, Illinois, Indiana, Kansas, Kentucky, Maine, Massachusetts, Michigan, Minnesota, Missouri, Montana, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Vermont, Washington, West Virginia, and Wisconsin.

2009-2010: Arkansas, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Illinois, Indiana, Kansas, Kentucky, Maine, Massachusetts, Minnesota, Missouri, Montana, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Vermont, Washington, West Virginia, and Wisconsin.

## Agaricus Mushrooms

Agaricus mushroom volume of sales totaled 778 million pounds, down 3 percent from the 2008-2009 season. Pennsylvania accounted for 64 percent of the total volume of sales and second-ranked California contributed 14 percent. The value of the Agaricus crop was estimated at \$886 million dollars, down 3 percent from the 2008-2009 season. Brown mushrooms, including Portabello and Crimini varieties, accounted for 120 million pounds, up 8 percent from last season. Brown mushrooms accounted for 15 percent of the total Agaricus volume sold. The brown mushroom crop value of sales for the 2009-2010 season is \$168 million dollars, 19 percent of the total Agaricus value.

The total number of Agaricus growers in the United States, at 112, is five less growers than last season. Growers with sales exceeding 10 million pounds accounted for 69 percent of United States Agaricus production, or 540 million pounds. The number of growers by sales categories is as follows:

Over 20.0 million pounds, 8 growers;  
10.0 million to 19.9 million pounds, 17 growers;  
5.0 million to 9.9 million pounds, 16 growers;  
2.5 million to 4.9 million pounds, 21 growers;  
1.0 million to 2.4 million pounds, 29 growers;  
0.5 million to 1.0 million pounds, 2 growers;  
less than 0.5 million pounds of sales, 19 growers.

The growing area is 27.6 million square feet, virtually unchanged from the previous season. Total fillings are 131 million square feet, down 3 percent from last season. Yields averaged 5.96 pounds per square foot, down slightly from last season. Producers received an average return of \$6.78 per square foot, up 1 cent from last season. United States fresh market production of Agaricus mushrooms is at 671 million pounds, down 1 percent from the previous season, while processed production, at 107 million pounds, is 13 percent below the previous season. Growers reported United States fresh market production at 86 percent of total sales volume with processed production making up the remaining 14 percent. Grower total filling intentions for the 2010-2011 crop are 127 million square feet, 2 percent less than the total fillings in the 2009-2010 season.

The 62 growers of Agaricus mushrooms in Chester County, Pennsylvania produced 351 million pounds, of Agaricus mushrooms, down 3 percent from the 2008-2009 growing season. This production was valued at \$308 million, down 1 percent from the 2008-2009 growing season. The growing area in Chester County was 11.5 million square feet, down 2 percent from the 2008-2009 growing season. Total fillings were 53.5 million square feet, down 4 percent from the 2008-2009 growing season.

## Specialty Mushrooms - Shiitake, Oyster, and all Other Exotics

Value of sales for commercially grown specialty mushrooms in 2009-2010 is \$39.1 million, down 19 percent from the 2008-2009 season. A specialty grower is defined as having at least 200 natural wood logs in production or some commercial indoor growing area, and \$200 dollars or more in sales. The average price per pound received by growers, at \$2.56, is down 48 cents from the previous season.

Volume of sales of Shiitake mushrooms totaled 6.32 million pounds for the 2009-2010 season, down 33 percent from the previous season. Price per pound received by growers, at \$2.75 per pound, is down 44 cents from 2008-2009. Sales volume of Oyster mushrooms, at 5.78 million pounds, is up 14 percent from the previous season. Price per pound received by growers, at \$2.55 per pound, is up 9 cents from the previous season. Volume of Sales of exotic mushrooms, other than Shiitake or Oyster, is 3.17 million pounds, up 1.81 million pounds from last season. Price per pound received by growers, at \$2.18 per pound, is down \$1.96 from 2008-2009.

## Certified Organic Agaricus and Specialty Mushrooms

Growers produced 30.0 million pounds of mushrooms that were certified organic during the 2009-2010 growing season, 28 percent below 2008-2009 of 42.0 million. Out of the 30.0 million pounds, 17.0 million pounds, or 57 percent of the total were sold as certified organic mushrooms, while the rest were sold without the certified organic label. This compares with 12.4 million pounds, or 30 percent sold as certified organic during the 2008-2009 crop year. Agaricus mushrooms accounted for 74 percent of the mushrooms sold as certified organic, while all specialty mushrooms made up the remainder. The total certified organic sales of all mushrooms represent 2 percent of the 2009-2010 total mushroom sales. The number of certified organic mushroom growers totaled 51, up seven growers from the previous season. These growers represent 16 percent of the 312 total mushroom producers.

## Statistical Methodology

**Survey procedures:** Grower surveys are conducted in preparation for this report. All known commercial mushroom producers are contacted utilizing mail, telephone, and personal enumeration. Unless other specific arrangements are made, data collection for multi-State operations is conducted by the State in which the firm's headquarters is located. Information is collected for Agaricus (including White Button, Crimini, and Portabello) and specialty mushrooms.

**Estimating procedures:** Information obtained from the mushroom grower surveys is used to establish estimates of number of growers, area in production, yield per square foot, utilization, volume of sales, average price per pound, and value of sales. Estimates are also prepared for the total amount of mushrooms grown as certified organic, quantity sold from mushrooms certified as organically produced and the number of certified organic growers.

**Revision policy:** All mushroom estimates, except intentions, are subject to revision the following year based on a thorough review of all available data.

**Reliability:** The mushrooms grower surveys are subject to non-sampling errors, such as omissions, duplication, and mistakes in reporting, recording, and processing the data. These errors cannot be measured directly, but are minimized through rigid quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

## Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@nass.usda.gov](mailto:nass@nass.usda.gov)

Lance Honig, Chief, Crops Branch ..... (202) 720-2127

Jorge Garcia-Pratts, Head, Fruits, Vegetables and Special Crops Section ..... (202) 720-2127

Debbie Flippin – Fresh and Processing Vegetables, Onions, Strawberries..... (202) 720-2157

Fred Granja – Apples, Apricots, Cherries, Plums, Prunes, Tobacco ..... (202) 720-4288

Dawn Keen – Floriculture, Maple Syrup, Nursery, Tree Nuts ..... (202) 720-4215

Steve Maliszewski – Citrus, Coffee, Grapes, Tropical Fruits ..... (202) 720-5412

Tierra Mobley – Berries, Cranberries, Potatoes, Sweet Potatoes ..... (202) 720-4285

Dan Norris – Austrian Winter Peas, Dry Edible Peas, Lentils, Mints,

Mushrooms, Peaches, Pears, Wrinkled Seed Peas, Dry Beans ..... (202) 720-3250

Kim Ritchie – Hops ..... (360) 709-2400



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- Printed reports may be purchased from the National Technical Information Service (NTIS) by calling toll-free (800) 999-6779, or (703) 605-6220 if calling from outside the United States or Canada. Accepted methods of payment are Visa, MasterCard, check, or money order.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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## **USDA Data Users' Meeting**

**Monday October 25, 2010**

**Crowne Plaza Chicago-Metro**

**Chicago, Illinois 60661**

**312-829-5000**

The USDA's National Agricultural Statistics Service will be organizing an open forum for data users. The purpose will be to provide updates on pending changes in the various statistical and information programs and seek comments and input from data users. Other USDA agencies to be represented will include the Agricultural Marketing Service, the Economic Research Service, the Foreign Agricultural Service, and the World Agricultural Outlook Board. The Foreign Trade Division from the Census Bureau will also be included in the meeting.

For registration details or additional information for the Data Users' Meeting, see the NASS homepage at <http://www.nass.usda.gov/meeting/> or contact Marie Jordan (NASS) at 202-690-8141 or at [marie\\_jordan@nass.usda.gov](mailto:marie_jordan@nass.usda.gov).

This Data Users' Meeting precedes an Industry Outlook Meeting that will be held at the same location on Tuesday October 26, 2010. The Outlook meeting brings together analysts from various commodity sectors to discuss the outlook situation. For registration details or additional information for the Industry Outlook Meeting, see the Livestock and Marketing Information Center (LMIC) homepage at <http://www.lmic.info/> or contact Erica Rosa 303-236-0461 at [rosa@lmic.info](mailto:rosa@lmic.info) or Laura Lahr 303-236-0464 at [lahr@lmic.info](mailto:lahr@lmic.info).